

SAFETY DATA SHEET

BUTANOX P-50

Version 0 Revision Date 00/00/0000 Print Date 04/23/2015 US / Z8

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BUTANOX P-50

Product Use Description : Curing agent

Company :

0

Telephone :

E-mail address : Emergency telephone :

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid	
Color	clear, colorless	
Odor	faint	

GHS Classification

Organic peroxides, Type F Skin corrosion, Category 1B Serious eye damage, Category 1 Skin sensitization, Category 1 Acute aquatic toxicity, Category 3 Chronic aquatic toxicity, Category 3

GHS Label element

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P220 Keep away from dirt, rust, chemicals in particular.

P234 Keep only in original container.

P261 Avoid breathing mist, vapours or spray.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/

physician.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water spray, alcohol-resistant

foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up. P410 Protect from sunlight.

P420 Store away from other materials.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

Potential Health Effects

Inhalation : Inhalation of aerosols may cause irritation to mucous

membranes.

Thermal decomposition can lead to release of irritating gases

and vapors.

Skin : Symptoms may be delayed.

May cause an allergic skin reaction.

Causes severe skin burns.

Eyes : Causes serious eye damage.

Ingestion : Causes burns.

May be harmful if swallowed.

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : The symptoms and effects are as expected from the hazards

as shown in section 2. No specific product related symptoms

are known.

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Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dimethyl phthalate	131-11-3	Aquatic Acute 3; H402	70 - 90
1,2-Dimethylpropylidene dihydroperoxide	13921-99-8	Org. Perox. F; H242 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	20 - 30
methyl isopropyl ketone peroxide	33372-83-7	Org. Perox. A; H240 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	1 - 5
3-Methyl-2-butanone	563-80-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT SE 3; H336 Aquatic Acute 3; H402	1 - 5

Methyl isopropyl ketone peroxide 11-35% solution in dimethyl phthalate

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Immediate medical attention is required.

Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Inhalation : If breathed in, move person into fresh air.

Consult a physician after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately.

Rinse immediately with plenty of water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

If skin irritation persists, call a physician.

Eye contact : Rinse with plenty of water.

Get medical attention immediately. Continue to rinse during

transport of patient. Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Do not induce vomiting! May cause chemical burns in mouth

and throat.

Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards

as shown in section 2. No specific product related symptoms

are known.

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Specific hazards during fire fighting / Specific hazards arising from the chemical

: CAUTION: reignition may occur.

Supports combustion.

Water spray may be ineffective unless used by experienced

firefighters.

Do not allow run-off from fire fighting to enter drains or water

courses.

Heating may cause decomposition with release of toxic fumes.

Combustion products : Fire will produce smoke containing hazardous combustion

products (see section 10).

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods for cleaning up / Methods for containment

: Keep wetted with water.

Soak up with inert absorbent material and dispose of as

hazardous waste.

Confinement must be avoided.

Never return spills in original containers for re-use.

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

Use explosion protected equipment.

Keep away from sources of ignition - No smoking.

No sparking tools should be used.

Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal

soaps).

Do not cut or weld on or near this container even when empty.

Keep away from combustible material.

Temperature class : It is recommended to use electrical equipment of temperature

group T3. However, autoignition can never be excluded.

Storage

Requirements for storage areas and containers

: No smoking.

Electrical installations / working materials must comply with

the technological safety standards. Keep only in original container. Store away from other materials.

Minimum storage temperature:

: Avoid temperatures below:

-10 °C (14 °F)

Maximum storage

: 25 °C (77 °F)

temperature:

Other data : If product freezes or separates, contact Akzo Nobel

: No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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Ingredients with workplace control parameters

Ingredients	CAS-No.	Valu	e Control parameters	Update	Basis	Form of exposure
Dimethyl phthalate	131-11-3	TWA	5 mg/m3	2013-03-01	ACGIH	
	Further information		Upper Respiratory Tract i Eye irritation	rritation		
		TWA	5 mg/m3	2013-10-08	NIOSH REL	
		TWA	5 mg/m3	1997-08-04	OSHA Z-1	
		TWA	5 mg/m3	1989-01-19	OSHA P0	
		TWA	5 mg/m3	2007-01-01	ACGIH	
	Further information	: 1	Eye & Upper Respiratory	Tract irritation		
		TWA	5 mg/m3	2005-09-01	NIOSH REL	
		TWA	5 mg/m3	1997-08-04	OSHA Z-1	
		TWA	5 mg/m3	1989-01-19	OSHA P0	
3-Methyl-2-butanone	563-80-4	TWA	20 ppm	2013-03-01	ACGIH	
	Further information		Neonatal toxicity Embryo/fetal damage	_ I		
		TWA	200 ppm 705 mg/m3	2013-10-08	NIOSH REL	
	TWA		200 ppm 705 mg/m3	1989-01-19	OSHA P0	

STEL: Short term exposure limit TWA: Time Weighted Average

Hazardous components without workplace control parameters

Occupational exposure limits of decomposition products

Decomposition products	CAS-No.	Value		Control parameters	Update	Basis	Form of exposure
2-Propanol	67-63-0, 67- 63-0	Uppe Eye i BEI: (see		200 ppm	2013-03-01	ACGIH	
	Further information			ral Nervous System in er Respiratory Tract irr rritation Substances for which BEI® section) lot classifiable as a hu	itation there is a Biologi		ex or Indices
		STEL		400 ppm	2013-03-01	ACGIH	
	Further information	Uppe Eye i BEI: (see		ral Nervous System in er Respiratory Tract irr rritation Substances for which BEI® section) Jot classifiable as a hu	itation there is a Biologi		ex or Indices
		TWA		400 ppm 980 mg/m3	2013-10-08	NIOSH REL	
		ST		500 ppm 1,225 mg/m3	2013-10-08	NIOSH REL	
		TWA		400 ppm 980 mg/m3	1997-08-04	OSHA Z-1	
	Further information	: (1	b): T	he value in mg/m3 is	approximate.		
		TWA		400 ppm 980 mg/m3	1989-01-19	OSHA P0	

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		STEL	-	500 ppm 1,225 mg/m3	1989-01-19	OSHA P0	
Acetic acid	64-19-7, 64- 19-7	TWA		10 ppm	2013-03-01	ACGIH	
	Further information		Uppe	nonary function er Respiratory Tract ir irritation	ritation		
		STEL		15 ppm	2013-03-01	ACGIH	
	Further information	:	Uppe	nonary function er Respiratory Tract ir irritation	ritation		
		TWA		10 ppm 25 mg/m3	2013-10-08	NIOSH REL	
	Further information	:	Can	be found in concentra	ations of 5-8% in	vinegar	
		ST		15 ppm 37 mg/m3	2013-10-08	NIOSH REL	
	Further information	:	Can	be found in concentra	ations of 5-8% in	vinegar	
	momaton	TWA		10 ppm 25 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	(b): T	The value in mg/m3 is	approximate.	1	I
	IIIIOIIIIallOII	TWA		10 ppm 25 mg/m3	1989-01-19	OSHA P0	
3-Methyl-2- butanone, 3-Methyl- 2-butanone	563-80-4, 563-80-4	TWA		20 ppm	2013-03-01	ACGIH	
	Further information			natal toxicity ryo/fetal damage			
	momation	TWA	Line	200 ppm 705 mg/m3	2013-10-08	NIOSH REL	
		TWA		200 ppm 705 mg/m3	1989-01-19	OSHA P0	
Acetone	67-64-1, 67- 64-1	TWA		500 ppm	2013-03-01	ACGIH	
	Further information		Hem Uppe Eye (): Ac prop See BEI: (see	ral Nervous System in atologic effects ar Respiratory Tract in irritation dopted values or notated osed in the NIC Notice of Intended CF Substances for which BEI® section) Not classifiable as a h	ritation tions enclosed ar nanges (NIC) n there is a Biolog	ical Exposure Ind	J
		STEL		750 ppm	2013-03-01	ACGIH	
	Further information		Hem Uppe Eye (): Ac prop See BEI: (see	ral Nervous System is atologic effects er Respiratory Tract in irritation dopted values or nota osed in the NIC Notice of Intended Cl Substances for which BEI® section)	ritation tions enclosed ar nanges (NIC) n there is a Biolog	ical Exposure Ind	
		TWA		250 ppm	2013-10-08	NIOSH REL	
		TWA		590 mg/m3 1,000 ppm 2,400 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	(b): ¯	Γhe value in mg/m3 is	approximate.		<u> </u>
	monnation	TWA		750 ppm	1989-01-19	OSHA P0	
		STEL	=	1,800 mg/m3 1,000 ppm 2,400 mg/m3	1989-01-19	OSHA P0	
	Further information			ne acetone STEL doe effect for all other sec		cellulose acetate	fiber industry.

Propane	74-98-6	TWA	A	1,000 ppm 1,800 mg/m3	2013-10-08	NIOSH REL	
		TWA	A	1,000 ppm 1,800 mg/m3	1997-08-04	OSHA Z-1	
	Further information	:	(b):	The value in mg/m3 is	approximate.		
		TWA	Ą	1,000 ppm 1,800 mg/m3	1989-01-19	OSHA P0	
	Further information	:		See Appendix F: Minimal Oxygen Content Asphyxia			
Acetic acid, 1- methylethyl ester, Acetic acid, 1- methylethyl ester	108-21-4, 108-21-4	Up		100 ppm	2013-03-01	ACGIH	
	Further information			Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation			
		STE	L	200 ppm	2013-03-01	ACGIH	
	Further information	:	Upp	ntral Nervous System in territories Respiratory Tract in intritation			
	Further information	:	See	Appendix D - Substa	nces with No Esta	blished RELs	
		TWA	À	250 ppm 950 mg/m3	1997-08-04	OSHA Z-1	
	Further information	: (The value in mg/m3 is	approximate.	•	
		TWA	4	250 ppm 950 mg/m3	1989-01-19	OSHA P0	
		STEL		310 ppm 1,185 mg/m3	1989-01-19	OSHA P0	

Engineering measures

Explosion proof ventilation recommended.

Effective exhaust ventilation system

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection : Glove material: butyl-rubber

: Glove material: Neoprene

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with

an approved filter.

Filter A

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

Environmental exposure controls

General advice : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Color : clear

colorless

Odor : faint

Odor Threshold : No data available

Safety data

pH : Weakly acidic

Melting point : -10 °C

Boiling point/boiling range : Decomposes below the boiling point.

Flash point : Above the SADT value

Evaporation rate : No data available

Flammability (solid, gas) :

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapor pressure : 7.6 hPa at 20 °C

Relative vapor density : No data available

Relative density : 1.157 at 20 °C

Bulk density : Not applicable

Water solubility : at 20 °C

partly miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : Test method not applicable

Decomposition temperature : SADT - (Self accelerating decomposition temperature) is the

lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause

decomposition below the SADT.

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Self-Accelerating

: 50 °C

decomposition temperature (SADT)

Viscosity, dynamic : 20 mPa.s at 20 °C

Viscosity, kinematic : 17.29 mm2/s at 20 °C

Explosive properties : Not explosive

Oxidizing properties : Not classified as oxidizing.

Active Oxygen Content : 6.5 %

Organic peroxides : 24 - 26 %

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid : A high degree of confinement must be avoided.

Heat, flames and sparks.

For safety, store below:

25 °C (77 °F)

Materials to avoid : Contact with incompatible materials will result in hazardous

decomposition.

For queries regarding the suitability of other materials please

contact the supplier.

Do not mix with peroxide accelerators, unless under controlled

processing.

Use only stainless steel 316, PP, polyethylene or glass-lined

equipment.
Acids and bases

Iron Copper

Reducing agents Heavy metals

Rust

Hazardous decomposition

products

: Carbon oxides 2-Propanol Acetic acid

3-Methyl-2-butanone

Acetone Propane

Acetic acid, 1-methylethyl ester

Hydrocarbons

Thermal decomposition : SADT - (Self accelerating decomposition temperature) is the

lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause

decomposition below the SADT.

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : No dangerous reaction known under conditions of normal use.

Self-Accelerating

decomposition temperature

(SADT)

: 50 °C (122 °F)

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment

Further information : No further data available.

Test result

Acute oral toxicity : Acute toxicity estimate: 2,256 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

Component: Dimethyl phthalate

Further information : No further data available.

Component: Dimethyl phthalate

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat

Acute inhalation toxicity : Assessment: The substance or mixture has no acute

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inhalation toxicity

Skin irritation : Result: slight irritation

Eye irritation : Result: Slightly irritating to eyes.

Aspiration toxicity : No aspiration toxicity classification

Component: 1,2-Dimethylpropylidene dihydroperoxide

LD50: > 300 - 2,000 mg/kgAcute oral toxicity

Species: Rat

Skin irritation : Result: Causes burns.

Eve irritation : Result: Risk of serious damage to eyes.

Target Organ Systemic

: Routes of exposure: Ingestion Toxicant - Repeated

The substance or mixture is not classified as specific target

exposure

organ toxicant, repeated exposure.

Aspiration toxicity : No aspiration toxicity classification

Component: methyl isopropyl ketone peroxide

Acute oral toxicity : LD50: > 300 - 2,000 mg/kg

Species: Rat

Skin irritation : Result: Causes burns.

Eye irritation : Result: Risk of serious damage to eyes.

Routes of exposure: Ingestion

The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Aspiration toxicity : No aspiration toxicity classification

Component: 3-Methyl-2-butanone

Acute oral toxicity LD50: 3,078 mg/kg

Species: Rat

: LC50 (Rat): 6377 ppm Acute inhalation toxicity

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Repeated dose toxicity Species: Rat

> Application Route: Inhalation Number of exposures: 90

Target Organ Systemic Toxicant - Single exposure : May cause drowsiness or dizziness.

Aspiration toxicity : No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Component: Dimethyl phthalate

Acute aquatic toxicity : Harmful to aquatic life.

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Component: 1,2-Dimethylpropylidene dihydroperoxide

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Component: methyl isopropyl ketone peroxide

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Component: 3-Methyl-2-butanone

Acute aquatic toxicity : Harmful to aquatic life.

Component: Dimethyl phthalate

Ecotoxicity effects

Toxicity to fish : LC50: 420 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to algae : EC10: 193.09 mg/l

Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Test Type: Growth inhibition

Method: OECD Test Guideline 201

ErC50: 259.76 mg/l Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Test Type: Growth inhibition Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC: 11 mg/l

Exposure time: 102 d

Species: Oncorhynchus mykiss (rainbow trout)

Test Type: flow-through test Method: Other guidelines

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 9.6 mg/l Exposure time: 21 d reproduction rate

Species: Daphnia magna (Water flea)

Method: Other guidelines

Elimination information (persistence and degradability)

Bioaccumulation : Species: Fish

Exposure time: 1 d

Bioconcentration factor (BCF): 5.4

Biodegradability : Result: Readily biodegradable.

Component: 1,2-Dimethylpropylidene dihydroperoxide

Ecotoxicity effects

Toxicity to fish : LC50: 16 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 34 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae : ErC50: 1.7 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Test Type: Growth inhibition

Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Biodegradability : Result: Not readily biodegradable.

Component: methyl isopropyl ketone peroxide

Ecotoxicity effects

Toxicity to fish : LC50: 16 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 34 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Test Type: semi-static test

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Method: OECD Test Guideline 202

Toxicity to algae : ErC50: 1.7 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Test Type: Growth inhibition

Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Biodegradability : Result: Not readily biodegradable.

Component: 3-Methyl-2-butanone

Ecotoxicity effects

Toxicity to fish : LC50: > 100 mg/l

Exposure time: 96 h Species: Fish Test Type: static test

No toxicity at the limit of solubility.

Toxicity to algae : EC50: 44.2 mg/l

Exposure time: 72 h Species: algae

Test Type: Growth inhibition Method: OECD Test Guideline 201

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Hazardous waste

Dispose of contents/container in accordance with local

regulation.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not

recommended.

Follow all warnings even after the container is emptied.

14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 3109

Proper shipping name : Organic peroxide type F, liquid

(Bis(1-hydroperoxy-1,2dimethylpropyl) peroxide)

Class : 5.2 Subsidiary risk : HEAT

Packing group : Not Assigned Labels : 5.2 (HEAT)

Packing instruction (cargo :

aircraft)

Packing instruction : 570

(passenger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3109

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID

570

(Bis(1-hydroperoxy-1,2dimethylpropyl) peroxide)

Class : 5.2

Packing group : Not Assigned

Labels : 5.2 EmS Code : F-J, S-R Marine pollutant : yes

(Bis(1-hydroperoxy-1,2dimethylpropyl) peroxide)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3109

Proper shipping name : Organic peroxide type F, liquid

(Bis(1-hydroperoxy-1,2dimethylpropyl) peroxide, 27%)

Class : 5.2
Packing group : II
Labels : 5.2
ERG Code : 145
Marine pollutant : yes

(Bis(1-hydroperoxy-1,2dimethylpropyl) peroxide)

Reportable Quantity : This product does not contain an environmentally hazardous

substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION

Notification status

CH INV : NO. Not in compliance with the inventory

TSCA : NO. This product either contains a chemical substance that is not listed

on the public TSCA Inventory or the TSCA Inventory status of the product

has not been evaluated.

DSL : NO. This product contains the following components that are not on the

Canadian DSL nor NDSL.

AICS : NO. Not in compliance with the inventory NZIoC : NO. Not in compliance with the inventory ENCS : NO. Not in compliance with the inventory ISHL : NO. Not in compliance with the inventory KECI : NO. Not in compliance with the inventory PICCS : NO. Not in compliance with the inventory IECSC : NO. Not in compliance with the inventory

For explanation of abbreviations, see section 16.

TSCA list : Not relevant

OSHA Hazards : Organic Peroxide, Toxic by ingestion, Skin sensitizer, Corrosive

to skin, Severe eye irritant

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ
		(lbs)
Dimethyl phthalate	131-11-3	5000 lbs

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Reactivity Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313: Dimethyl phthalate 131-11-3

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Dimethyl phthalate 131-11-3

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Dimethyl phthalate 131-11-3

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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements

H225 :	Highly flammable liquid and vapor.
H240 :	Heating may cause an explosion.
H242 :	Heating may cause a fire.
H302 :	Harmful if swallowed.
H314 :	Causes severe skin burns and eye damage.
H317 :	May cause an allergic skin reaction.
H318 :	Causes serious eye damage.
H332 :	Harmful if inhaled.
H336 :	May cause drowsiness or dizziness.
H401 :	Toxic to aquatic life.

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H402 : Harmful to aquatic life.

H411 : Toxic to aquatic life with long lasting effects.

Further information

Notification status explanation

REACH 1907/2006 (EU)

CH INV Switzerland. New notified substances and declared preparations

TSCA United States TSCA Inventory

DSL Canadian Domestic Substances List (DSL)

AICS Australia Inventory of Chemical Substances (AICS)
NZIOC New Zealand. Inventory of Chemical Substances

ENCS Japan. ENCS - Existing and New Chemical Substances Inventory

ISHL Japan. ISHL - Inventory of Chemical Substances
KECI Korea. Korean Existing Chemicals Inventory (KECI)

PICCS Philippines Inventory of Chemicals and Chemical Substances

(PICCS)

IECSC China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

Revision Date 00/00/0000

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the c ontext of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old,call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.